

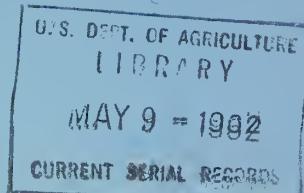
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Here, on Mt. Rose, Nevada, Dr. J. E. Church made
the first western snow survey 50 years ago.



FEDERAL - STATE - PRIVATE COOPERATIVE
SNOW SURVEY and WATER SUPPLY FORECASTS
for
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above
in cooperation with the U.S. Forest Service, Bureau of Reclamation,
National Park Service, Geological Survey, Indian Service, Wheatland
Irrigation District, and other Federal, State and private organizations.

AS OF
MAY 1, 1959

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
COLORADO, RIO GRANDE AND ARKANSAS	MONTHLY (FEB.-MAY)	COLO. EXP. STATION COLO. STATE ENGINEER NEW MEXICO STATE ENGINEER	FT. COLLINS, COLO.
COLUMBIA <i>Includes Alaska</i>	MONTHLY (JAN.-MAY)	IDAHO STATE ENGINEER	BOISE, IDAHO
UPPER MISSOURI	MONTHLY (FEB.-MAY)	MONT. AGR. EXP. STATION	BOZEMAN, MONTANA
WEST-WIOE	(OCT. 1, APR. 1 AND MAY 1)	COOPERATORS	PORTLAND, OREGON

STATES

ARIZONA	SEMI-MONTHLY (JAN. 15-APR. 1)	SALT R. VALLEY WATER USERS ASSOCIATION	PHOENIX, ARIZONA
NEVADA	MONTHLY (FEB.-APR.)	NEVADA STATE ENGINEER	RENO, NEVADA
OREGON	MONTHLY (JAN.-MAY)	ORE. AGR. EXP. STATION	PORTLAND, OREGON
UTAH	MONTHLY (JAN.-MAY)	UTAH STATE ENGINEER UTAH AGR. EXP. STATION	SALT LAKE CITY, UTAH
WASHINGTON	MONTHLY (FEB.-MAY)	WASH. STATE DEPT. OF CONSERVATION	SPokane, WASHINGTON
WYOMING	MONTHLY (FEB.-JUNE)	WYOMING STATE ENGINEER	CASPER, WYOMING

Copies of the various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S.W. 5th Avenue, Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

OTHER SNOW SURVEY REPORTS

BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANOS AND FORESTS, PARLIAMENT BLOGS, VICTORIA, B.C.
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIFORNIA DEPARTMENT OF WATER RESOURCES, SACRAMENTO, CALIFORNIA

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS

FOR
WYOMING

Issued

May 1, 1959

Report Prepared
by
George W. Peak
Snow Survey Supervisor
State of Wyoming

Soil Conservation Service
345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

Earl Lloyd
State Engineer of Wyoming
Cheyenne, Wyoming

1. *Chlorophytum* (L.) Willd.
2. *Chlorophytum* (L.) Willd.

3. *Chlorophytum* (L.) Willd.

4. *Chlorophytum*

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10. *Chlorophytum* (L.) Willd.

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27. *Chlorophytum*

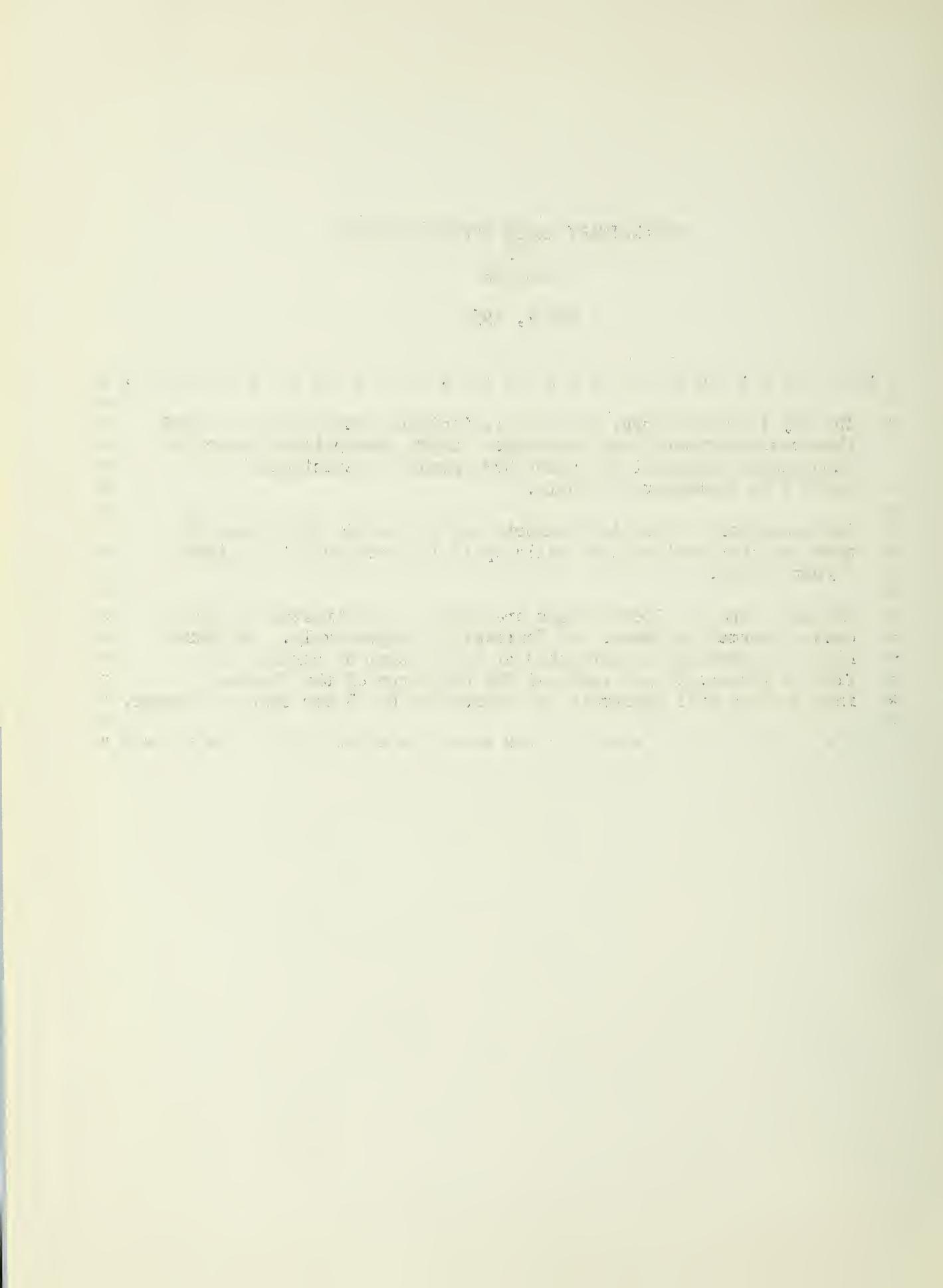
28. *Chlorophytum*

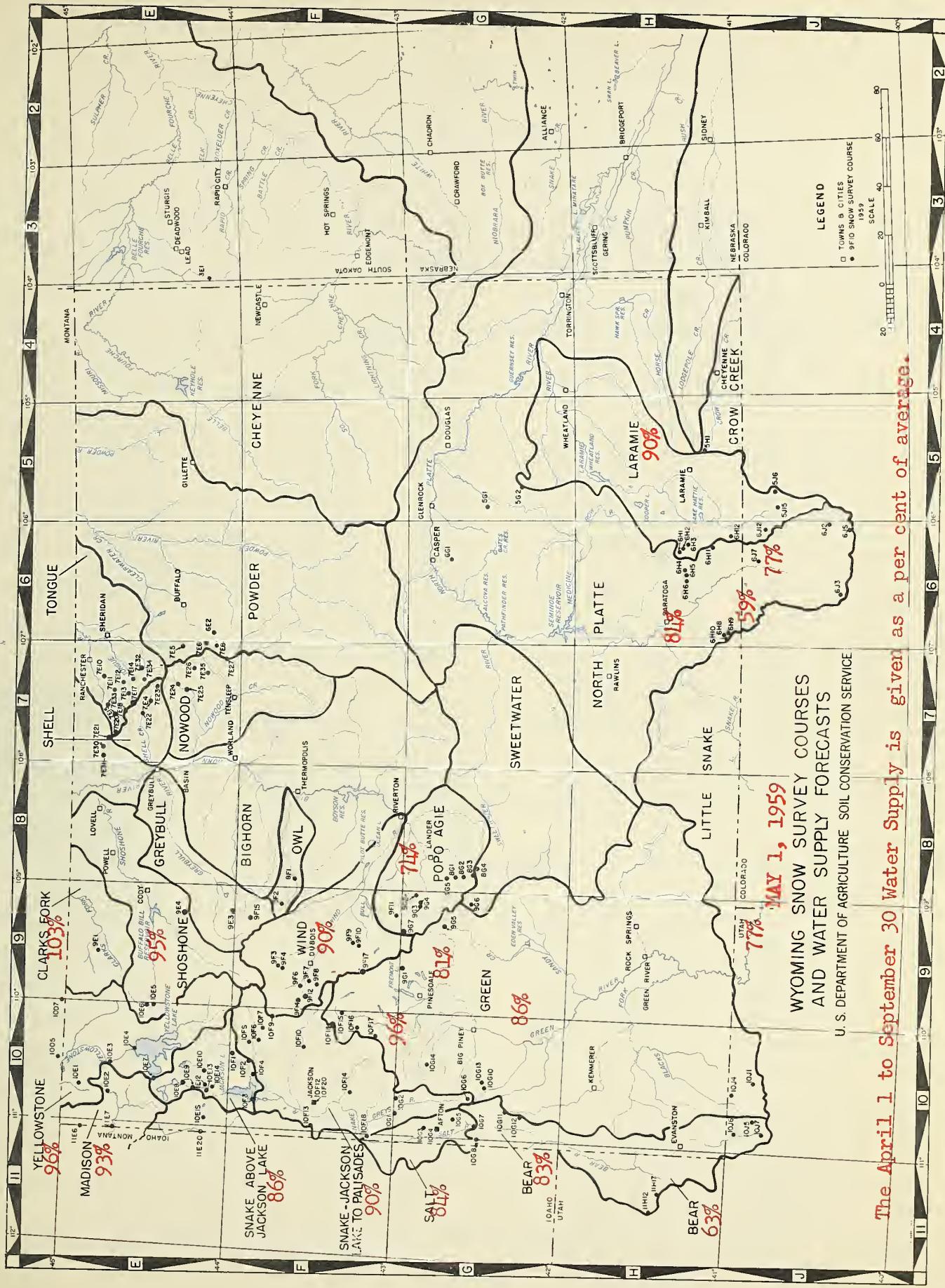
29. *Chlorophytum*

30. *Chlorophytum*

PRELIMINARY WATER SUPPLY OUTLOOK
FOR
WYOMING

MAY 1, 1959





The April 1 to September 30 Water Supply is given as a per cent of average.

INDEX TO WYOMING SNOW COURSES

LOCATION														LOCATION																			
WYOMING DRAINAGE AND COURSE NAME	NUMBER	SEC. ELEV.	LAT. TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b	WYOMING DRAINAGE AND COURSE NAME	NUMBER	SEC. ELEV.	LAT. TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b																		
MISSOURI RIVER DRAINAGE														MISSOURI RIVER DRAINAGE																			
MAISON RIVER								CROW CREEK																									
Norris Basin	10E2	7500	44°44'		110°42'	1936	3,4	2	Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1,4																
21 Mile -m	11E5	7150	1	11S	5E	1934	1,2,3,4,5	6	Albany	6H11	9400	18	14N	78W	1949	2,3,4,5	1																
West Yellowstone -m	11E7	6700	34	13S	5E	1934	1,2,3,4,5	6	Bottle Creek	6H8	8200	24	14N	85W	1936	2,3,4,5	1,4																
YELLOWSTONE								NORTH PLATTE																									
Canyon	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	1	Boxelder	5G1	9000	31	30N	75W	1950	2,3,4,5	1																
Cooke City -m	1007	7400	25	9S	14E	1937	1,2,3,4,5	2	Casper Mountain	6G1	8700	16	32N	79W	1954	1,2,3,4,5	1																
Crevice Mountain -m	1005	8400	22	9S	9E	1935	3,4	4	Columbine -c	6J3	9300	21	5N	82W	1936	2,3,4,5	1																
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2	Fox Park	6H12	9200	21	13N	78W	1936	2,3,4,5	4																
Lake Camp	10E4	7550	44°34'		110°24'	1937	1,2,3,4,5	1	Labonte	5G2	8450	11	27N	74W	1949	2,3,4,5	1																
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2	North Barrett Creek #2	6H5	9400	30	16N	80W	1936	2,3,4,5	1,4																
Thumb Divide	10E7	7900	44°22'		110°35'	1946	2,3,4	5	North French Creek #1	6H4	10200	27	16N	80W	1938	2,3,4,5	1,4																
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2	Northgate -c	6J7	8500	7	11N	76W	1950	2,3,4,5	1																
CLARK'S FORK								Old Battle																									
Lodgepole	9E1	8200	32	55N	106W	1940	2,3,4,5	1,4	Park View -c	6J2	9200	24	5N	78W	1936	2,3,4,5	1,4																
WIND RIVER								Ryan Park #2	6H6	8400	34	16N	81W	1936	2,3,4,5	1,4																	
Big Warm	9F12	8200	36	42N	109W	1955	2,3,4,5	1	Webber Spring	6H9	9000	27	14N	85W	1936	2,3,4,5	1,4																
Burroughs Creek	9F4	3800	15	43N	107W	1948	2,3,4,5	1	CHEYENNE RIVER																								
Dinwoodie	9F10	10000	9	36N	105W	1948	2,3,4,5	1,3	Upper Spearfish -s	3E1	6500	21	3N	1E	1944	2,3,4	4																
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	1,3	GREEN RIVER & POPO AGIE RIVER																								
OuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	1	Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1																
Geyser Creek	9F7	8500	12	41N	103W	1948	2,3,4,5	1	GREEN RIVER & WIND RIVER																								
Little Warm	9F8	9500	24	41N	105W	1948	2,3,4,5	1	Oinwoodie Glaciers	9F17	10500	43°14'		109°35'	1959	2,3,4	1	COLORADO RIVER DRAINAGE															
Sheridan R.S. -#2	9F14	7500	3	42N	109W	1955	2,3,4,5	1																									
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1																									
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4	5	GREEN RIVER																								
POPO AGIE RIVER								Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1																	
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1	Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4,5	1																
Bruce's Camp	8G3	6500	24	32N	101W	1955	2,3,4	5	Dutch Joe R.S.	9G5	8700	32	31N	104W	1936	2,3,4,5	1																
Hobbs Park	9G3	10000	22	25	3W	1948	2,3,4,5	1,3	East Rim Olide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	1																
Mosquito Park R.S.	9G4	9500	23	25	3W	1940	2,3,4,5	1,3	Gros Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5	1																
Sawmill Glade	8G1	8500	3	31N	101W	1938	2,3,4,5	1	Hewinta R.S. -u	10J4	9500	33	3N	13E	1930	4																	
South Pass	gG3	9000	13	30N	101W	1939	2,3,4,5	1	Hole-in-the-Rock -u	10J1	9150	13	2N	15E	1931	4																	
St. Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	1,3	Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1																
Trout Creek	9G2	8400	5	25	2W	1943	2,3,4,5	1,3	Kendall R.S.	10F15	7900	23	38N	110W	1936	2,3,4,5	1																
OWL CREEK								Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1																	
Beavers Mill	9F2	8900	6	43N	102W	1948	2,3,4,5	1	Mulligan Park	9G1	8900	17	35N	108W	1936	2,3,4,5	1																
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1	Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1,4																
GREYBULL RIVER								Piney-LaBarge	10G10	8820	19	29N	114W	1937	2,3,4,5	1																	
Timber Creek #2	9E3	8800	25	47N	103W	1956	2,3,4,5	1	Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5	1																
Wood River #2	9F15	8000	26	46N	103W	1956	2,3,4,5	1	Snyder Basin R.S. #2	10G13	8040	15	29N	114W	1956	2,3,4,5	1																
SHOSHONE RIVER								Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5	1																	
Carter Mountain	9E4	7800	15	50N	103W	1957	1,2,3,4	1	GREEN RIVER & POPO AGIE RIVER																								
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2	Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1																
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2	GREEN RIVER & WIND RIVER	9F17	10500	43°14'		109°35'	1959	2,3,4	1																
NONWOOD CREEK								SNAKE RIVER BASIN (Above Jackson Lake)																									
Cold Springs Camp	7E25	8700	1	50N	88W	1956	2,3,4,5	1	Arizona	10F1	6850	3	46N	113W	1919	2,3,4	5																
Medicine Lodge Lakes	7E24	3500	7	51N	87W	1956	2,3,4,5	1	Aster Creek	10E8	7700	44°17'		110°37'	1919	2,3,4	5																
Munkers Pass	7E8	9700	11	48N	85W	1950	2,3,4,5	1	Base Camp	10F2	6900	20	46N	113W	1947	2,3,4	5																
Onion Gulch	7E17	8100	31	48N	85W	1956	2,3,4,5	1	Coulter Creek	10E10	7600	44°09'		110°33'	1919	2,3,4	2																
Tensleep Lake	7E26	9075	33	50N	88W	1956	2,3,4,5	1	Glade Creek	10E13	7200	44°08'		110°44'	1919	2,3,4	5																
Tyrell R.S.	7E35	8300	30	49N	86W	1956	2,3,4,5	1	Grassy Lake	10E15	7265	6	48N	117W	1940	2,3,4,5	5																
SHELL CREEK								Huckleberry Divide	10E14	7300	32	48N	115W	1919	2,3,4	5																	
Bald Mountain	7E21	9600	33	56N	91W	1956	2,3,4,5	1	Lewis Lake Divide	10E9	7900	44°13'		110°40'	1919	2,3,4,5	1																
Beaver-Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1	Moran	10F4	6800	8,17	45N	114W	1919	2,3,4	5																
Bone-Spring Divide	7E18	9200	32	55N	89W	1956	2,3,4,5	1	Moran Bay	10F3	6800	14	45N	116W	1919	2,3,4	5																
Granite Creek Camp	7E22	7800	15	53N	89W	1956	2,3,4,5	1	Snake River Station	10E1																							

WYOMING STREAM-FLOW FORECASTS MAY 1959

BASIN AND TRIBUTARY	April - September 30				
	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet			
		PERCENT 15-YR. AVERAGE	MEASURED 1957	RUNOFF 1956	15-YEAR AVERAGE 1938-52
MADISON RIVER					
West Yellowstone (at)	183	93%	220	255	198
YELLOWSTONE RIVER					
Corwin (at)	1792	96%	1964	2427	1870
NORTH POPO AGIE					
Milford (near)	66	77%	123	96	86*
LITTLE POPO AGIE					
Lander (near)	34	70%	62	44	49**
WIND RIVER					
Dubois (at)	92	90%	146	114	102**
SHOSHONE RIVER					
Buffalo Bill Dam (below)(1)	780	95%	1115	1014	823
CLARKS FORK					
Chance (at)	599	103%	715	716	580
LARAMIE RIVER					
Jelm (at) (2)	94	90%	168	96	105*
ENCAMPMENT RIVER					
Encampment (near)	95	59%	214	140	160*
NORTH PLATTE RIVER					
North Gate (at)	189	77%	537	232	245
Saratoga (at)	550	84%	1168	590	657
GREEN RIVER					
Warren Bridge (at)	320	96%	394	440	333

WYOMING STREAM-FLOW FORECASTS MAY 1959

BASIN AND TRIBUTARY	April-September 30				
	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet		15-YEAR	
		PERCENT 15-Yr. AVERAGE	MEASURED RUNOFF 1957	1956	1938-52
NORTH PINNEY CREEK					
Mason (near)	37	100%	47	53	37
NEW FORK CREEK					
Boulder (near)	201	81%	268	282	248
GREEN RIVER					
Fontenelle (at)	800	86%	1177	1238	931
Linwood (at) Utah	1000	77%	1596	1529	1302
SNAKE RIVER					
Moran (at) (3)	740	86%	936	1251	858
PACIFIC CREEK					
Moran (near)	141	85%	188	243	166**
BUFFALO FORK					
Moran (near)	338	95%	402	488	356**
GROS VENTRE					
Kelly (at)	269	103%	301	403	261**
HOBACK					
Jackson (near)	328	85%	441	623	386**
SNAKE RIVER					
Flow into Palisades (3)	2636	90%	2901	3848	2929**
SALT RIVER					
State Line (at)	340	95%	411	435	360
BEAR RIVER					
Utah-Wyo. State Line (near)	102	83%	101	158	123*
Randolph (near)	73	63%	44	142	116*
Harer (at) Idaho	210	75%	189	357	281
SMITHS FORK					
Border (near)	100	84%	112	148	119*

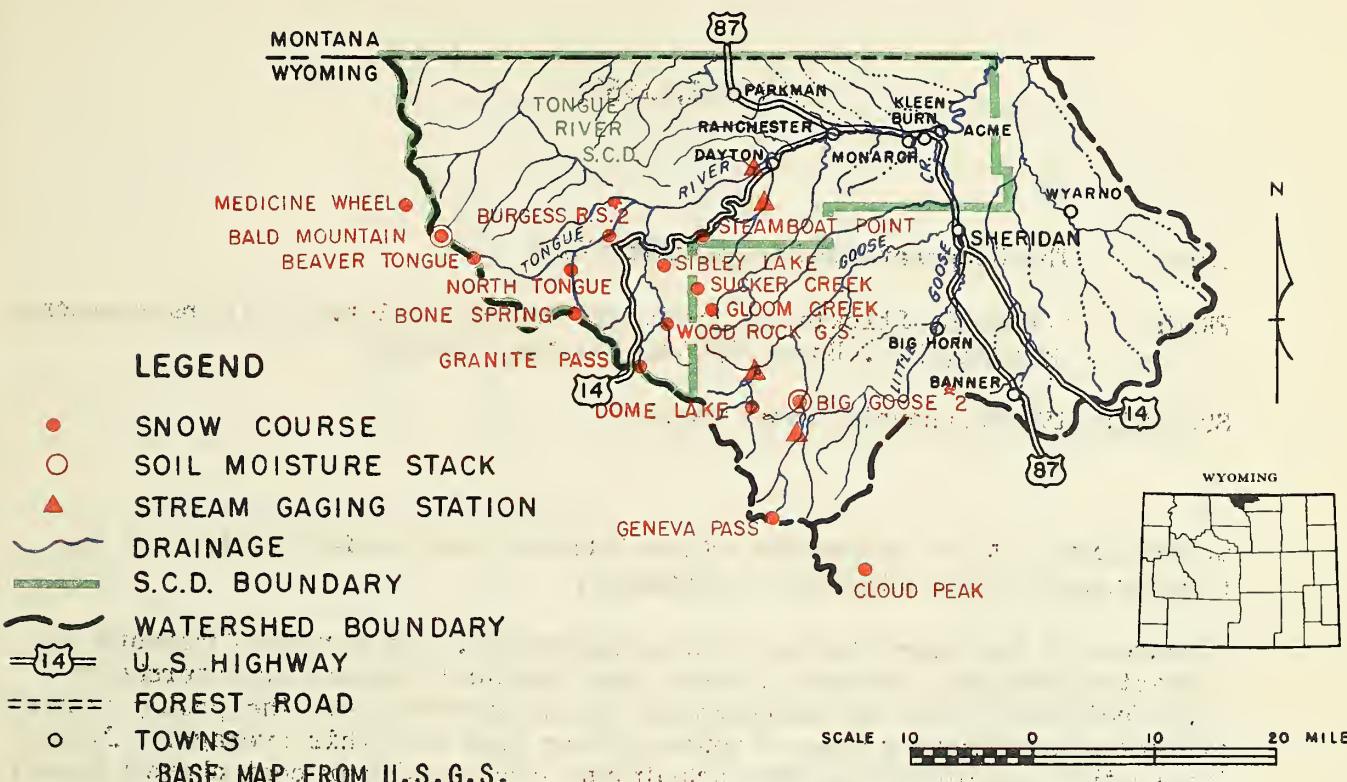
All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- (2) Observed flow corrected for Colorado Diversion above station.
- (3) Observed flow corrected for Jackson Lake storage.
- (4) Observed flow corrected for Jackson Lake and Palisades storage.

* Less than 15.

** Estimated 1938-52 average.

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
TONGUE RIVER SOIL CONSERVATION DISTRICT
SHERIDAN COUNTY, WYOMING



SNOW			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)		YEARS OF RECORD
						LAST YEAR	NORMAL	
7E30	Medicine Wheel	9000	4/25	70	25.9	14.8	15.5	3
7E33	Burgess R.S. #2	7900	4/25	40	12.6	6.2	8.1	4
7E10	Steamboat Point	7500	4/28	41	13.6	12.5	11.1	3
7E21	Bald Mountain	9600	4/25	85	30.9	19.9	22.8	3
7E11	Sibley Lake	8000	4/28	47	14.4	12.6	11.3	3
7E20	Beaver Tongue	9200	4/24	78	29.8	17.0	20.0	3
7E12	Sucker Creek	9000	4/26	56	19.0	14.9	14.7	3
7E14	Gloom Creek	9300	4/26	60	19.8	16.9	16.7	3
7E18	Bone Spring	9200	4/27	73	23.8	20.3	20.5	3
7E13	Wood Rock G.S.	8500	4/26	48	15.1	10.7	12.5	3
7E17	Granite Pass	8950	4/27	67	22.5	20.3	20.7	3
7E34	Dome Lake #2	8800	4/30	41	12.0	13.5	13.8	3
7E32	Big Goose #2	7700	4/29	31	9.0	12.3	10.3	4

SOIL MOISTURE			PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE		YEARS OF RECORD		
				CURRENT	LAST YEAR			
7E21M	Bald Mountain	9600	4/25	18%	14%	2		
7E32M	Big Goose #2	7700	4/29	32%	100%	50%	2	

"WATER IS THE WEST'S GREATEST RESOURCE"

5, L-15,721

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
TONGUE RIVER SOIL CONSERVATION DISTRICT
SHERIDAN COUNTY, WYOMING

May 1, 1959

TO: The Cooperator, Tongue River SCD
FROM: Vanden G. Stickley, Work Unit Conservationist, Soil Conservation Service, P.O. Box 277, Ranchester, Wyoming
SUBJECT: 1959 Seasonal Water Supply

Conditions in the headwaters of the District vary considerably from the north west to the south east drainages.

Because of the short period of snow survey data, an accurate forecast is not yet possible, however, please note that the Tongue River Watershed from Medicine Wheel to Granite Pass is considerably above the past 3 year average indicating a flow of about 35 per cent above this average. Along the south east ridge the snow pack drops to about 15 per cent above normal.

It is believed that a heavy runoff may be anticipated on the Tongue River above Dayton and that adequate supplies may be expected on Goose Creek.

Vanden G. Stickley

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

DRAINAGE BASIN and SNOW COURSE	NO. or STATE ELEV.	SNOW COVER MEASUREMENTS								
		1959			PAST RECORD					
		Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	Water Content (In.)		1938-52	1957	Average	Prior Yrs. of Record
					1958	1957				

MADISON RIVER - YELLOWSTONE PARK

Norris Basin +	10E2	7500	4/29	13	5.0	7.7	8.1	6.2**	7
21 Mile ^m	11E6	7150	5/1	31	12.3	14.4	21.5	11.2	25
West Yellowstone ^m	11E7	6700	4/30	6	2.0	5.0	10.8	3.5	25

UPPER YELLOWSTONE - YELLOWSTONE PARK

Canyon	10E3	7500	5/1	34	11.8	14.3	17.3	12.2**	14
East Entrance +	10E6	7000	4/29	14	6.1	7.8	10.2		5
Lake Camp	10E4	7850	4/30	23	6.5	9.4	9.3	8.6**	12
Lupine Creek	10E1	7300	4/29	21	7.1	7.2	8.9	8.8**	8
Northeast Entrance ^m	10D7	7400	4/30	20	7.0	7.8	8.2	5.6**	14
Norris Basin +	10E2	7500	4/29	13	5.0	7.7	8.1	6.2**	7
Sylvan Pass +	10E5	7100	4/29	35	13.2	12.6	15.1	8.8*	17

LOWER YELLOWSTONE - CLARK'S FORK

Lodgepole	9E1	8200	5/1	32	10.9	9.2	12.6	9.5*	19
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LOWER YELLOWSTONE - WIND RIVER

Big Warm	9F12	8800	4/25	24	7.5	4.7	11.8		4
Burroughs Creek	9F4	8800	4/26	41	14.3	10.8	15.7	15.8**	10
Dinwoodie	9F10	10000	4/27	45	12.7	10.8	16.4	15.4**	10
Dry Creek	9F9	9500	4/28	28	7.0	5.9	10.4	8.3**	10
Dunoir	9F6	8750	4/25	21	6.5	5.2	10.7	7.4*	17
Geyser Creek	9F7	8500	4/25	17	5.4	4.1	10.2	6.6**	10
Little Warm	9F8	9500	4/25	57	17.4	16.6	23.9	21.0**	10
Sheridan R.S. #2	9F14	7500	4/27	9	0.5	2.7	8.0		4
T-Cross Ranch	9F3	8000	4/26	8	2.7	1.9	7.4	4.6*	16
Togwotee Pass +	10F9	9600	5/1	78	33.2	29.4	32.7	34.3**	10

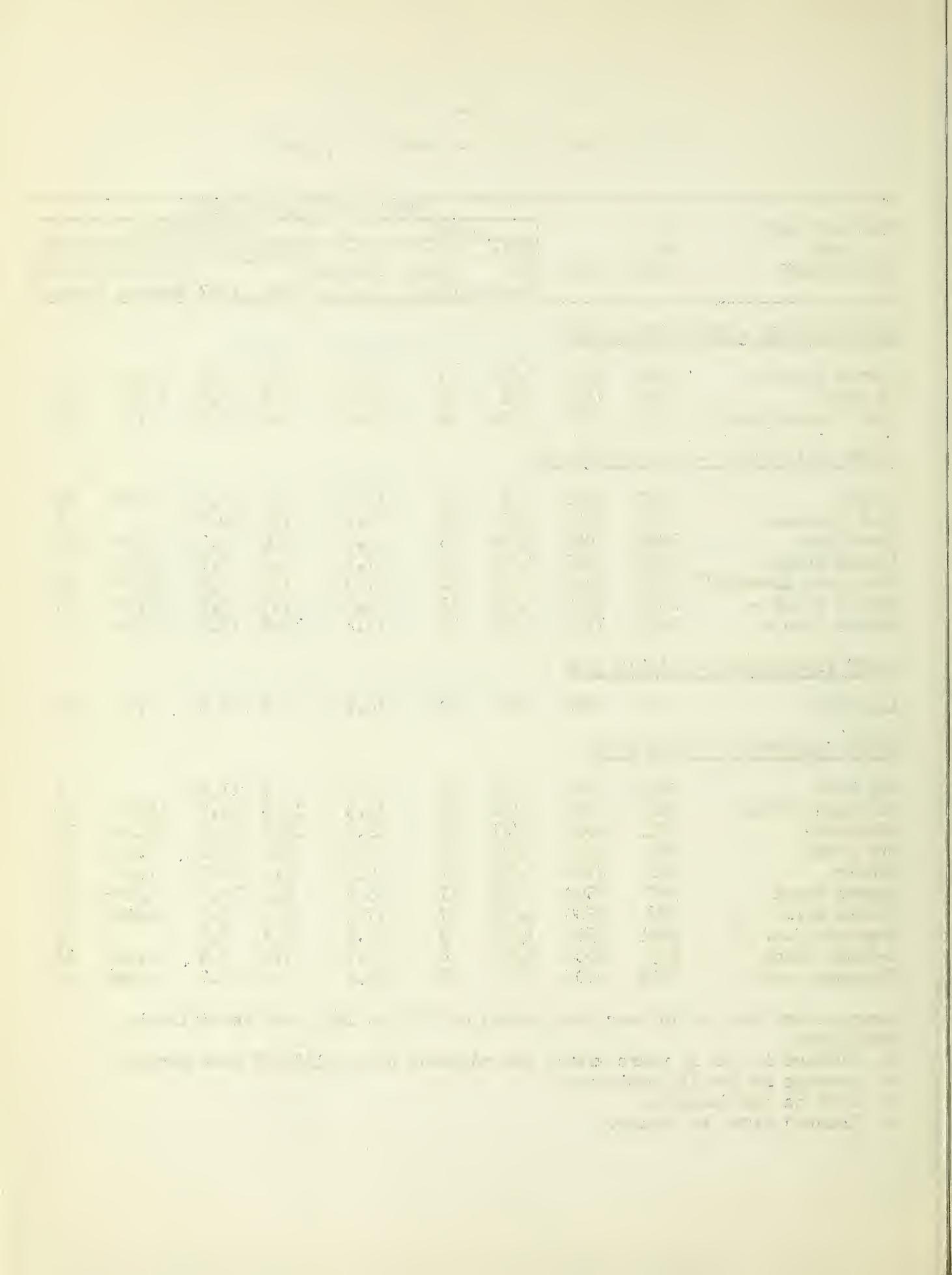
Averages are for the 15 year base period of 1938 to 1952 with the following exceptions:

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** Average is for all past data.

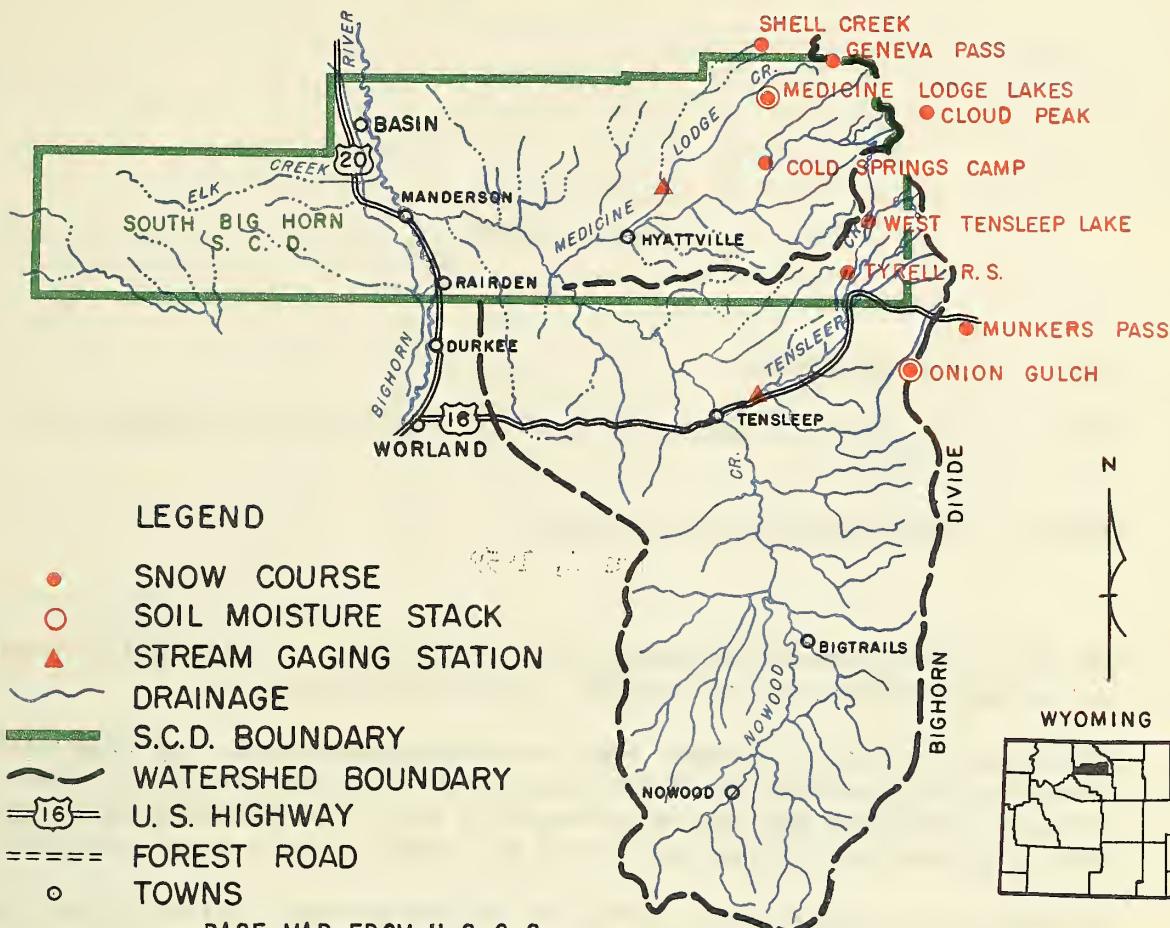
^m Montana snow courses.

÷ Located close to divide.



SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
SOUTH BIG HORN SOIL CONSERVATION DISTRICT
BIG HORN COUNTY, WYOMING

SCALE 10 0 10 20 MILES



BASE MAP FROM U.S.G.S.

SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	LAST YEAR	NORMAL	YEARS OF RECORD
7E23	Shell Creek	9600	5/1	59	18.3	15.2	16.2	3
7E24	Medicine Lodge Lake	9500	5/3	49	15.3	11.8	11.4	2
7E25	Cold Springs Camp	8700	5/3	30	10.0	7.2	6.6	3
7E26	West Tensleep Lake	9075	4/29	49	14.2	11.7	11.6	2
7E35	Tyrell R. S.	8300	4/29	39	12.4	9.0	6.1	2
7E8	Munkres Pass	9700	4/30	40	11.7	12.2	9.8	8
7E27	Onion Gulch	8100	4/30	39	12.5	10.3	8.6	3

SOIL MOISTURE

NO.	NAME	ELEVATION	DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
				CURRENT	LAST YEAR	NORMAL	
7E24M	Medicine Lodge Lake	9500	5/3	51%	---	---	0
7E27M	Onion Gulch	8100	4/30	44%	48%	35%	2

"WATER IS THE WEST'S GREATEST RESOURCE"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
SOUTH BIG HORN SOIL CONSERVATION DISTRICT
BIG HORN COUNTY, WYOMING

May 1, 1959

TO: The Cooperator
FROM: The Board of Supervisors, South Big Horn Soil Conservation District
SUBJECT: 1959 Seasonal Water Supply

The May 1 snow surveys extending from Shell Creek to Onion Gulch continue to indicate adequate water supplys for the district.

According to Jerry G. Dierks, Work Unit Conservationist, the snow pack above Hyattville contains 27 per cent more water than the past 3 year average. Tensleep and Nowood creek water sheds are standing at 130 per cent of normal, or 30 per cent above the past 3 year average for this date.

If subsequent precipitation proves to be about normal, flow in the District streams will be sufficient for irrigation demands.

Because of the short period of record on snow courses and soil moisture stacks, the discharge in acre feet cannot be forecasted as yet, however, another year or two of data should provide sufficient information for a more accurate analysis of our seasonal water supplies.

Arthur H. Johnston

Arthur H. Johnston, Chairman
Board of Supervisors

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

DRAINAGE BASIN and SNOW COURSE	NO. or STATE	ELEV.	SNOW COVER MEASUREMENTS					
			1959			PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1958	1957

LOWER YELLOWSTONE - POPO AGIE RIVER

Blue Ridge	8G2	9500	5/2	23	7.0	12.2	15.3	12.5*	19
Bruce's Camp	8G5	6500	5/3	0	0.0		N.R.		3
Hobbs Park	9G3	10000	4/29	53	6.5	16.4	22.7	22.4**	10
Mosquito Park R.S.	9G4	9500	4/29	23	6.6	9.0	13.9	8.3**	14
Sawmill Glade	5G1	8500	5/2	10	2.9	9.4	11.6	6.8*	19
South Pass \div	8G3	9000	5/2	23	7.4	11.4	19.0	14.6*	19
St. Lawrence R.S.	9F11	9000	4/28	20	5.6	5.6	11.4	7.6*	15
Trout Creek	9G2	8400	4/29	10	2.9	6.1	10.4	3.2**	10

LOWER YELLOWSTONE - OWL CREEK

Beavers Mill	9F2	8900	4/28	21	7.0	N.R.	9.4	8.3	7
Owl Creek	8F1	8700	4/28	25	6.5	9.0	8.2	7.6**	10

LOWER YELLOWSTONE - GREYBULL RIVER

Timber Creek #2	9F3	8800	4/26	8	3.5	6.8	9.0		4
Wood River #2	9F15	8000	4/27	15	4.8	7.0	12.4		4

LOWER YELLOWSTONE - SHOSHONE RIVER

Carter Mountain	9E4	7800	4/25	17	4.5	9.6	12.7		2
East Entrance \div	10E6	7000	4/29	14	6.1	7.8	10.2		5
Sylvan Pass \div	10E5	7100	4/29	35	13.2	12.6	15.1	8.8*	17
Togwotee Pass \div	10F9	9600	5/1	78	33.2	29.4	32.7	34.3**	10

LOWER YELLOWSTONE - NOWOOD CREEK

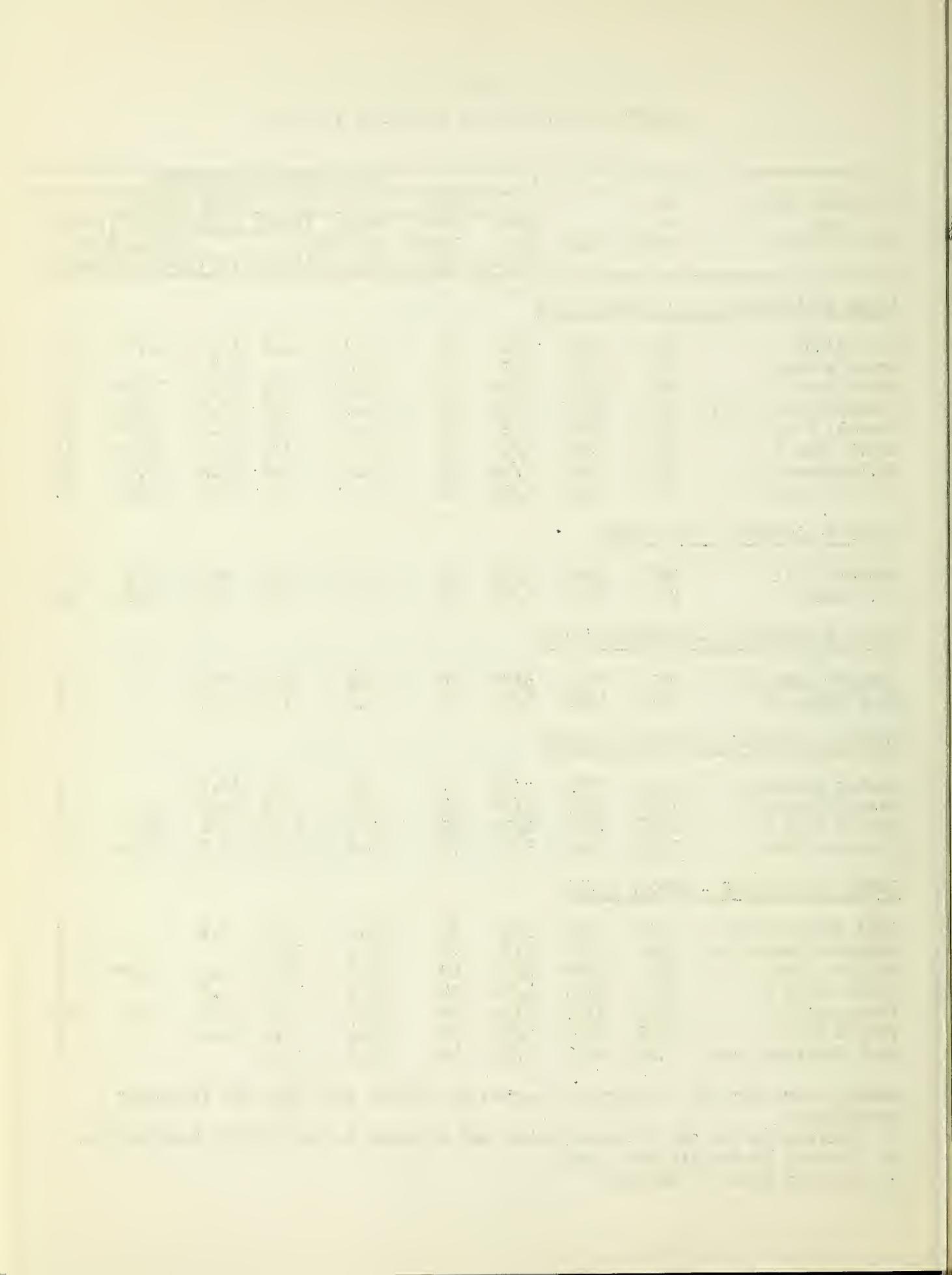
Cold Springs Camp	7E25	8700	5/3	30	10.0	7.2	6.1		3
Medicine Lodge Lake	7E24	9500	5/3	49	15.3	11.8			2
Munkres Pass \div	7E8	9700	4/30	40	11.7	12.2	11.4	9.8**	8
Onion Gulch \div	7E27	8100	4/30	39	12.5	10.3	8.2		3
Tensleep R.S.	7E7	8300	4/29	29	10.0	7.4	1.9	4.5	23
Tyrell R.S.	7E35	8300	4/29	39	12.4	9.0	N.R.		2
West Tensleep Lake	7E26	9075	4/29	49	14.2	11.7			2

Averages are for the 15 year base period of 1938 to 1952 with the following exceptions:

* Average is for the 15 years within and adjacent to the 1938-52 base period.

** Average is for all past data.

\div Located close to divide.



SNOW SURVEY & WATER SUPPLY FORECAST

FOR

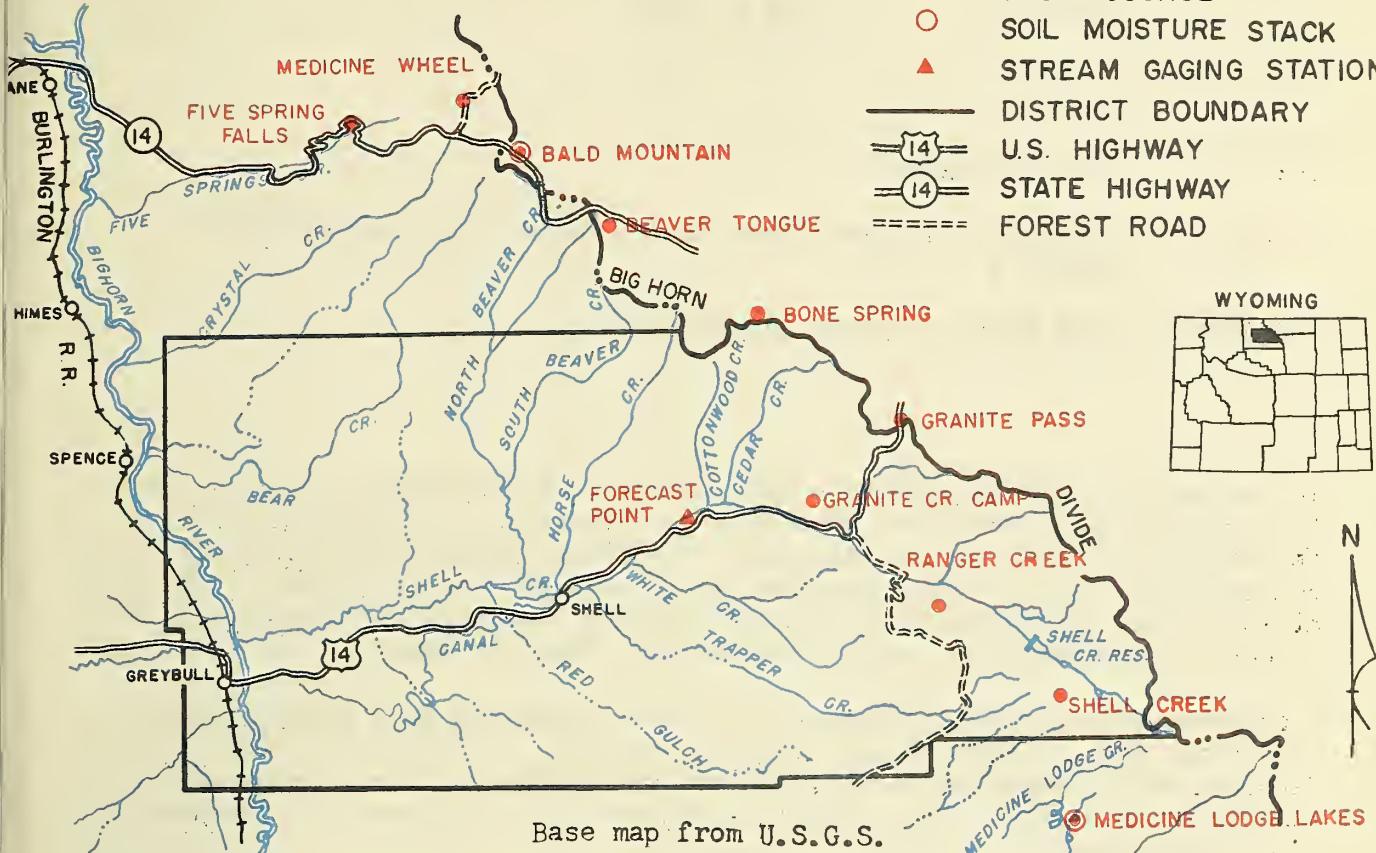
SHELL VALLEY SOIL CONSERVATION DISTRICT

BIG HORN COUNTY, WYOMING

5 0 5 10
SCALE IN MILES

LEGEND

- SNOW COURSE
- SOIL MOISTURE STACK
- ▲ STREAM GAGING STATION
- DISTRICT BOUNDARY
- U.S. HIGHWAY
- STATE HIGHWAY
- ===== FOREST ROAD



SNOW

SNOW COURSE			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	CURRENT INFORMATION		PAST RECORD	
NO.	NAME	ELEVATION				LAST YEAR	NORMAL	YEARS OF RECORD	
7E31	Five Springs Falls	7500	4/30	33	12.0	7.2	5.8	3	
7E30	Medicine Wheel	9000	4/25	70	25.9	14.8	15.5	3	
7E21	Bald Mountain	9600	4/25	85	30.9	19.9	22.8	3	
7E20	Beaver Tongue	9200	4/24	78	29.8	17.0	20.0	3	
7E18	Bone Spring	9200	4/27	73	23.8	20.3	20.5	3	
7E17	Granite Pass	8950	4/27	67	22.5	20.3	20.7	3	
7E22	Granite Creek Camp	7800	5/1	Trace		1.5	.5	3	
7E4	Ranger Creek	8800	5/1	35	12.2	8.2	6.4	22	
7E23	Shell Creek	9600	5/1	59	18.3	15.2	16.2	3	
7E24	Medicine Lodge Lake	9500	5/3	49	15.3	11.8	11.4	2	

SOIL MOISTURE

SOIL MOISTURE STACK			DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
NO.	NAME	ELEVATION		CURRENT	LAST YEAR	NORMAL	
7E21M	Bald Mountain	9600	4/25	18%	14%	7%	2
7E24M	Medicine Lodge Lake	9500	5/3	51%	---	---	0

SNOW SURVEY & WATER SUPPLY FORECAST

FOR

SHELL VALLEY SOIL CONSERVATION DISTRICT

BIG HORN COUNTY, WYOMING

May 1, 1959

TO: The Cooperator

FROM: The Board of Supervisors, Shell Valley Soil Conservation District

SUBJECT: 1959 Seasonal Water Supplies

The Soil Conservation Service snow surveyors have found an increase in the May 1 snow pack data, according to a report received from Dominic J. Feeley, Work Unit Conservationist. The report states that the water content of the snow from Granite Pass, north to Medicine Wheel is standing at 138 per cent of normal, and from Granite Pass south the watershed is 24 per cent above the past 3 year average for this date.

Because of the short period of past snow survey and soil moisture data, an accurate analysis is not possible, however, it is believed that heavy flows may be expected in the northern tributaries of Shell Creek with reduced, but still above normal flows from the south eastern watersheds of Shell Creek.

*Oral Harvey*Oral Harvey, Chairman
Board of Supervisors

1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00	41.00	42.00	43.00	44.00	45.00	46.00	47.00	48.00	49.00	50.00	51.00	52.00	53.00	54.00	55.00	56.00	57.00	58.00	59.00	60.00	61.00	62.00	63.00	64.00	65.00	66.00	67.00	68.00	69.00	70.00	71.00	72.00	73.00	74.00	75.00	76.00	77.00	78.00	79.00	80.00	81.00	82.00	83.00	84.00	85.00	86.00	87.00	88.00	89.00	90.00	91.00	92.00	93.00	94.00	95.00	96.00	97.00	98.00	99.00	100.00	101.00	102.00	103.00	104.00	105.00	106.00	107.00	108.00	109.00	110.00	111.00	112.00	113.00	114.00	115.00	116.00	117.00	118.00	119.00	120.00	121.00	122.00	123.00	124.00	125.00	126.00	127.00	128.00	129.00	130.00	131.00	132.00	133.00	134.00	135.00	136.00	137.00	138.00	139.00	140.00	141.00	142.00	143.00	144.00	145.00	146.00	147.00	148.00	149.00	150.00	151.00	152.00	153.00	154.00	155.00	156.00	157.00	158.00	159.00	160.00	161.00	162.00	163.00	164.00	165.00	166.00	167.00	168.00	169.00	170.00	171.00	172.00	173.00	174.00	175.00	176.00	177.00	178.00	179.00	180.00	181.00	182.00	183.00	184.00	185.00	186.00	187.00	188.00	189.00	190.00	191.00	192.00	193.00	194.00	195.00	196.00	197.00	198.00	199.00	200.00	201.00	202.00	203.00	204.00	205.00	206.00	207.00	208.00	209.00	210.00	211.00	212.00	213.00	214.00	215.00	216.00	217.00	218.00	219.00	220.00	221.00	222.00	223.00	224.00	225.00	226.00	227.00	228.00	229.00	230.00	231.00	232.00	233.00	234.00	235.00	236.00	237.00	238.00	239.00	240.00	241.00	242.00	243.00	244.00	245.00	246.00	247.00	248.00	249.00	250.00	251.00	252.00	253.00	254.00	255.00	256.00	257.00	258.00	259.00	260.00	261.00	262.00	263.00	264.00	265.00	266.00	267.00	268.00	269.00	270.00	271.00	272.00	273.00	274.00	275.00	276.00	277.00	278.00	279.00	280.00	281.00	282.00	283.00	284.00	285.00	286.00	287.00	288.00	289.00	290.00	291.00	292.00	293.00	294.00	295.00	296.00	297.00	298.00	299.00	300.00	301.00	302.00	303.00	304.00	305.00	306.00	307.00	308.00	309.00	310.00	311.00	312.00	313.00	314.00	315.00	316.00	317.00	318.00	319.00	320.00	321.00	322.00	323.00	324.00	325.00	326.00	327.00	328.00	329.00	330.00	331.00	332.00	333.00	334.00	335.00	336.00	337.00	338.00	339.00	340.00	341.00	342.00	343.00	344.00	345.00	346.00	347.00	348.00	349.00	350.00	351.00	352.00	353.00	354.00	355.00	356.00	357.00	358.00	359.00	360.00	361.00	362.00	363.00	364.00	365.00	366.00	367.00	368.00	369.00	370.00	371.00	372.00	373.00	374.00	375.00	376.00	377.00	378.00	379.00	380.00	381.00	382.00	383.00	384.00	385.00	386.00	387.00	388.00	389.00	390.00	391.00	392.00	393.00	394.00	395.00	396.00	397.00	398.00	399.00	400.00	401.00	402.00	403.00	404.00	405.00	406.00	407.00	408.00	409.00	410.00	411.00	412.00	413.00	414.00	415.00	416.00	417.00	418.00	419.00	420.00	421.00	422.00	423.00	424.00	425.00	426.00	427.00	428.00	429.00	430.00	431.00	432.00	433.00	434.00	435.00	436.00	437.00	438.00	439.00	440.00	441.00	442.00	443.00	444.00	445.00	446.00	447.00	448.00	449.00	450.00	451.00	452.00	453.00	454.00	455.00	456.00	457.00	458.00	459.00	460.00	461.00	462.00	463.00	464.00	465.00	466.00	467.00	468.00	469.00	470.00	471.00	472.00	473.00	474.00	475.00	476.00	477.00	478.00	479.00	480.00	481.00	482.00	483.00	484.00	485.00	486.00	487.00	488.00	489.00	490.00	491.00	492.00	493.00	494.00	495.00	496.00	497.00	498.00	499.00	500.00	501.00	502.00	503.00	504.00	505.00	506.00	507.00	508.00	509.00	510.00	511.00	512.00	513.00	514.00	515.00	516.00	517.00	518.00	519.00	520.00	521.00	522.00	523.00	524.00	525.00	526.00	527.00	528.00	529.00	530.00	531.00	532.00	533.00	534.00	535.00	536.00	537.00	538.00	539.00	540.00	541.00	542.00	543.00	544.00	545.00	546.00	547.00	548.00	549.00	550.00	551.00	552.00	553.00	554.00	555.00	556.00	557.00	558.00	559.00	560.00	561.00	562.00	563.00	564.00	565.00	566.00	567.00	568.00	569.00	570.00	571.00	572.00	573.00	574.00	575.00	576.00	577.00	578.00	579.00	580.00	581.00	582.00	583.00	584.00	585.00	586.00	587.00	588.00	589.00	590.00	591.00	592.00	593.00	594.00	595.00	596.00	597.00	598.00	599.00	600.00	601.00	602.00	603.00	604.00	605.00	606.00	607.00	608.00	609.00	610.00	611.00	612.00	613.00	614.00	615.00	616.00	617.00	618.00	619.00	620.00	621.00	622.00	623.00	624.00	625.00	626.00	627.00	628.00	629.00	630.00	631.00	632.00	633.00	634.00	635.00	636.00	637.00	638.00	639.00	640.00	641.00	642.00	643.00	644.00	645.00	646.00	647.00	648.00	649.00	650.00	651.00	652.00	653.00	654.00	655.00	656.00	657.00	658.00	659.00	660.00	661.00	662.00	663.00	664.00	665.00	666.00	667.00	668.00	669.00	670.00	671.00	672.00	673.00	674.00	675.00	676.00	677.00	678.00	679.00	680.00	681.00	682.00	683.00	684.00	685.00	686.00	687.00	688.00	689.00	690.00	691.00	692.00	693.00	694.00	695.00	696.00	697.00	698.00	699.00	700.00	701.00	702.00	703.00	704.00	705.00	706.00	707.00	708.00	709.00	710.00	711.00	712.00	713.00	714.00	715.00	716.00	717.00	718.00	719.00	720.00	721.00	722.00	723.00	724.00	725.00	726.00	727.00	728.00	729.00	730.00	731.00	732.00	733.00	734.00	735.00	736.00	737.00	738.00	739.00	740.00	741.00	742.00	743.00	744.00	745.00	746.00	747.00	748.00	749.00	750.00	751.00	752.00	753.00	754.00	755.00	756.00	757.00	758.00	759.00	760.00	761.00	762.00	763.00	764.00	765.00	766.00	767.00	768.00	769.00	770.00	771.00	772.00	773.00	774.00	775.00	776.00	777.00	778.00	779.00	780.00	781.00	782.00	783.00	784.00	785.00	786.00	787.00	788.00	789.00	790.00	791.00	792.00	793.00	794.00	795.00	796.00	797.00	798.00	799.00	800.00	801.00	802.00	803.00	804.00	805.00	806.00	807.00	808.00	809.00	810.00	811.00	812.00	813.00	814.00	815.00	816.00	817.00	818.00	819.00	820.00	821.00	822.00	823.00	824.00	825.00	826.00	827.00	828.00	829.00	830.00	831.00	832.00	833.00	834.00	835.00	836.00	837.00	838.00	839.00	840.00	841.00	842.00	843.00	844.00	845.00	846.00	847.00	848.00	849.00	850.00	851.00	852.00	853.00	854.00	855.00	856.00	857.00	858.00	859.00	860.00	861.00	862.00	863.00	864.00	865.00	866.00	867.00	868.00	869.00	870.00	871.00	872.00	873.00	874.00	875.00	876.00	877.00	878.00	879.00	880.00	881.00	882.00	883.00	884.00	885.00	886.00	887.00	888.00	889.00	890.00	891.00	892.00	893.00	894.00	895.00	896.00	897.00	898.00	899.00	900.00	901.00	902.00	903.00	904.00	905.00	906.00	907.00	908.00	909.00	910.00	911.00	912.00	913.00	914.00	915.00	916.00	917.00	918.00	919.00	920.00	921.00	922.00	923.00	924.00	925.00	926.00	927.00	928.00	929.00	930.00	931.00	932.00	933.00	934.00	935.00	936.00	937.00	938.00	939.00	940.00	941.00	942.00	943.00	944.00	945.00	946.00	947.00	948.00	949.00	950.00	951.00	952.00	953.00	954.00	955.00	956.00	957.00	958.00	959.00	960.00	961.00	962.00	963.00	964.00	965.00	966.00	967.00	968.00	969.00	970.00	971.00	972.00	973.00	974.00	975.00	976.00	977.00	978.00	979.00	980.00	981.00	982.00	983.00	984.00	985.00	986.00	987.00	988.00	989.00	990.00	991.00	992.00	993.00	994.00	995.00	996.00	997.00	998.00	999.00	1000.00
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THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

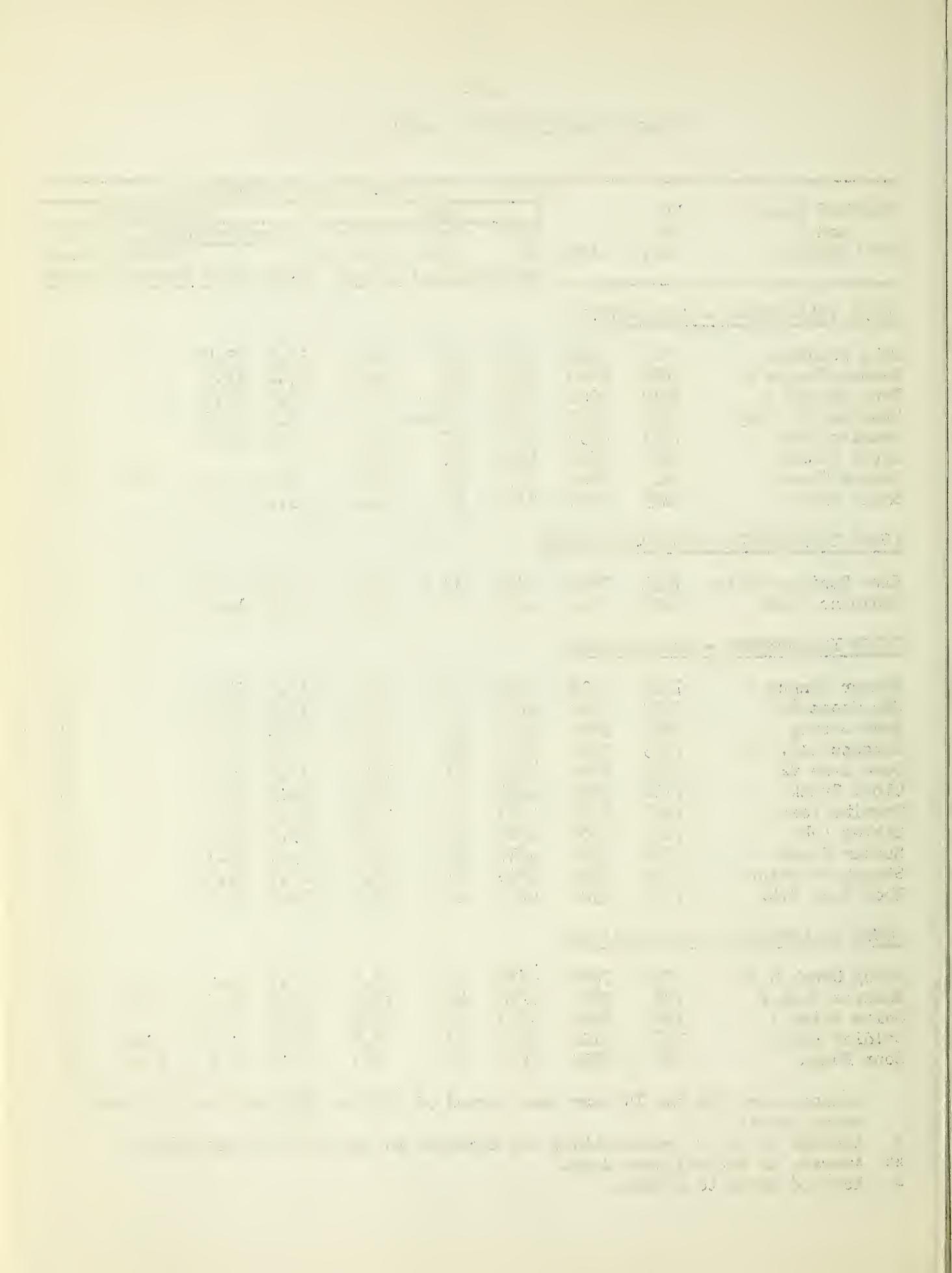
DRAINAGE BASIN and SNOW COURSE	NO. or STATE	ELEV.	SNOW COVER MEASUREMENTS					
			1959			PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1958	1957
<u>LOWER YELLOWSTONE - SHELL CREEK</u>								
Bald Mountain	7E21	9600	4/25	85	30.9	19.9	23.5	3
Beaver Tongue \div	7E20	9200	4/24	78	29.8	17.0	19.3	3
Bone Spring \div	7E18	9200	4/27	73	23.8	20.3	19.8	3
Granite Cr. Camp	7E22	7800	5/1	Trace		1.5	0.0	3
Granite Pass \div	7E17	8950	4/27	67	22.5	20.3	19.9	3
North Tongue	7E15	8800	4/25	54	18.7			1
Ranger Creek	7E4	8800	5/1	35	12.2	8.2	9.2	6.4*
Shell Creek	7E23	9600	5/1	59	18.3	15.2	15.6	22
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>								
Five Springs Falls	7E31	7500	4/30	33	12.0	7.2	5.6	3
Medicine Wheel	7E30	9000	4/25	70	25.9	14.8	16.3	3
<u>LOWER YELLOWSTONE - TONGUE RIVER</u>								
Beaver Tongue \div	7E20	9200	4/24	78	29.8	17.0	19.3	3
Big Goose #2	7E32	7700	4/29	31	9.0	12.3	11.3	4
Bone Spring \div	7E18	9200	4/27	73	23.8	20.3	19.8	3
Burgess R.S. #2	7E33	7900	4/25	40	12.6	6.2	8.4	4
Dome Lake #2	7E34	8800	4/30	41	12.0	13.5	13.7	3
Gloom Creek	7E14	9300	4/26	60	19.8	16.9	16.0	3
Granite Pass \div	7E17	8950	4/27	67	22.5	20.3	19.9	3
Sibley Lake	7E11	8000	4/28	47	14.4	12.6	10.9	3
Sucker Creek	7E12	9000	4/26	56	19.0	14.9	15.3	3
Steamboat Point	7E10	7500	4/28	41	13.6	12.5	11.0	3
Wood Rock G.S.	7E13	8500	4/26	48	15.1	10.7	15.2	3
<u>LOWER YELLOWSTONE - POWDER RIVER</u>								
Muddy Creek G.S.	7E28	7800	4/30	13	3.6	5.7	3.6	3
Munkres Pass \div	7E8	9700	4/30	40	11.7	12.2	11.4	9.8**
Onion Gulch \div	7E27	8100	4/30	39	12.5	10.3	8.2	3
Soldier Park	7E5	8700	5/1	27	7.5	10.8	6.6	5.9**
Sour Dough	7E6	8500	5/2	24	7.3	10.5	10.4	5.4*
* Averages are for the 15 year base period of 1938 to 1952 with the following exceptions: ** Average is for 15 years within and adjacent to the 1938-52 base period. \div Located close to divide.								

Averages are for the 15 year base period of 1938 to 1952 with the following exceptions:

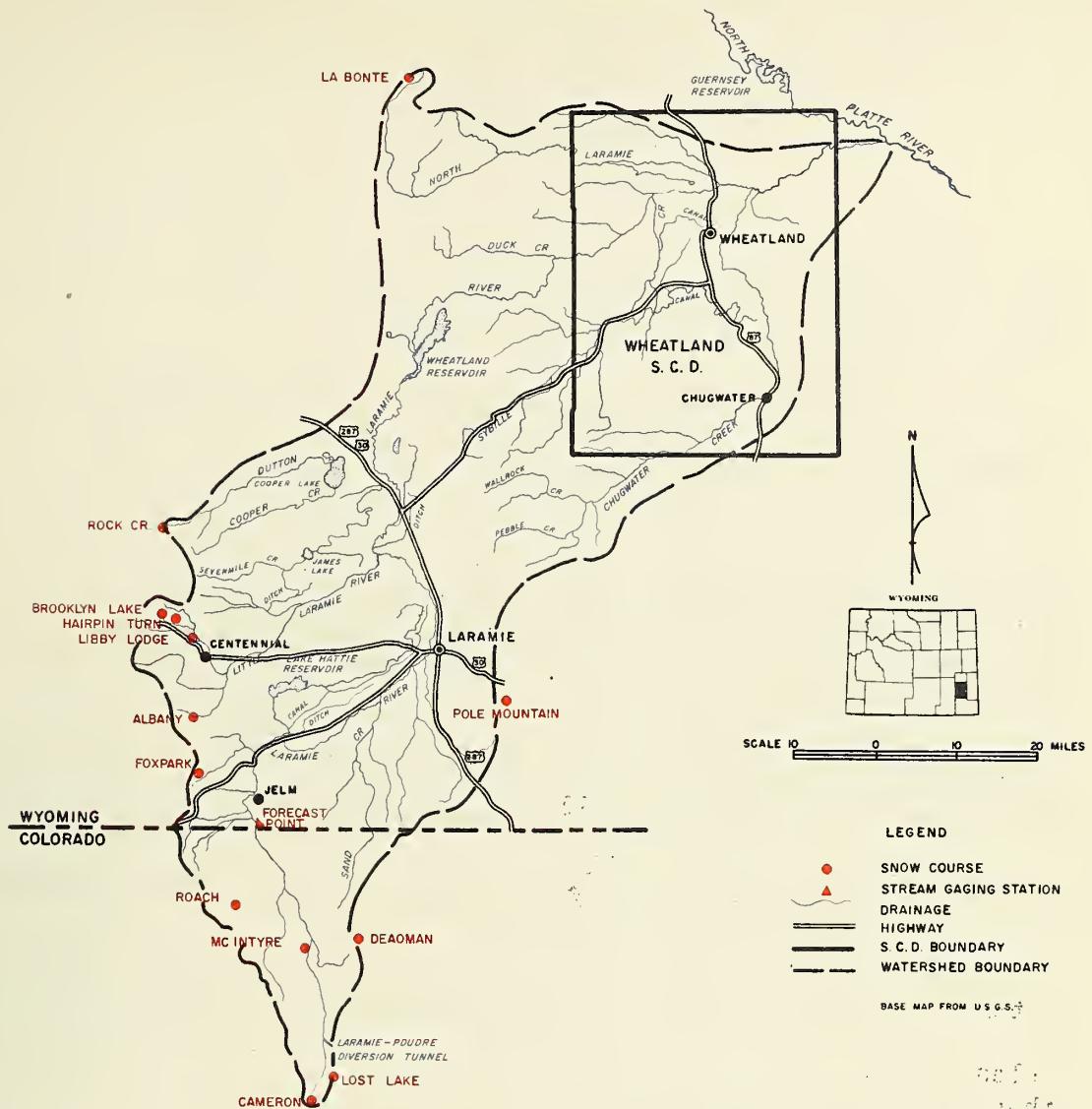
* Average is for 15 years within and adjacent to the 1938-52 base period.

** Average is for all past data.

\div Located close to divide.



SNOW SURVEY & WATER SUPPLY FORECAST
FOR
WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING
AND
WHEATLAND IRRIGATION DISTRICT



SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		PAST YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	LAST YEAR	
5G2	LaBonte	8450	4/29	0	0.0	Trace	0.0	8
6H15	Rock Creek(Aerial)	9500	No Report			-	-	0
6H1	Brooklyn Lake #1	10200	4/23	70	27.6	26.0	23.6	23
6H2	Hairpin Turn #2	9500	4/23	69	25.9	11.7	11.4	23
6H3	Libby Lodge #2	8700	4/23	36	13.2	9.8	6.8	23
6H11	Albany	9400	4/24	43	15.6	14.1	11.6	10
6H12	Foxpark	9200	4/28	21	8.0	13.4	5.5	23
6J8	Roach	9800	5/1	55	19.3	20.5	21.1	18
5J15	McIntyre	9100	5/1	35	10.8	12.2	11.1	9
5J1	Cameron Pass	10300	5/1	72	29.7	32.9	24.3	23
5J23	Lost Lake	9300	5/3	31	14.2	12.9	10.6	7
5J6	Deadman Hill	10200	4/29	55	18.6	18.4	17.6	20
5H1	Pole Mountain #2	8700	4/24	18	5.2	2.9	2.5	17

SNOW SURVEY & WATER SUPPLY FORECAST
FOR
WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING
AND
WHEATLAND IRRIGATION DISTRICT

May 1, 1959

TO: The Water User
FROM: The Boards of Supervisors
Wheatland SCD
Wheatland Irrigation District
SUBJECT: 1959 Seasonal Water Supplies

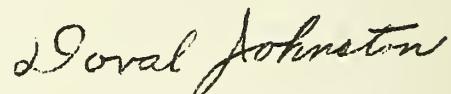
The snow pack in the Laramie River watershed is above normal, but the April 1 to September 30 runoff will be less than normal according to a report received from F. A. "Bud" Svalberg, Work Unit Conservationist, of the Soil Conservation Service.

Mr. Svalberg states that because of extremely dry soil moisture conditions, on the watershed, a considerable amount of snow melt will be necessary to bring the soil to field capacity before runoff begins.

Wheatland Reservoir #1 is filled to capacity, however, Wheatland Reservoir #2 contains 37,000 acre feet of usable storage.

The expected seasonal runoff at Jelm is computed at 94,000 acre feet of water or about 90 per cent of the 105,000 acre foot average.

Unless subsequent summer precipitation proves to be above normal, less than adequate water supplies may be anticipated.



Doval Johnston, Chairman
Board of Supervisors

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

DRAINAGE BASIN and SNOW COURSE	NO. or STATE	ELEV.	SNOW COVER MEASUREMENTS							
			1959			PAST RECORD				
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1958	1957	Average	Prior 1938-52 Yrs.of Record

NORTH PLATTE - SWEETWATER

Grannier Meadows	8G4	9000	5/2	21	6.2	11.0	19.2	14.0	22
Larsen Creek	9G6	9000	4/27	26	6.3	9.1	15.3	8.2**	9
South Pass \div	8G3	9000	5/2	23	7.4	11.4	19.0	14.6*	19

NORTH PLATTE - LARAMIE RIVER

Albany \div	6H11	9400	4/24	43	15.6	14.1	17.0	11.6**	10
Brooklyn Lake #1	6H1	10200	4/23	70	27.6	26.0	33.4	23.6	23
Brooklyn Lake #2	6H13	10200	4/23	69	25.9	25.2	32.8		3
Cameron Pass ^c \div	5J1	10300	5/1	72	29.7	32.9	36.1	24.3	23
Chambers Lake ^c	5J2	9000	5/3	17	8.1	11.0	13.9	4.4	23
Deadman Hill ^c	5J6	10200	4/29	55	18.6	19.5	25.0	17.6*	20
Fox Park \div	6H12	9200	4/28	21	8.0	13.4	10.1	5.5	23
Hairpin Turn #2	6H2	9500	4/23	40	13.5	11.7	16.2	11.4	23
Libby Lodge #2	6H3	8700	4/23	36	13.2	9.8	13.2	6.8	23
Lost Lake ^c	5J23	9300	5/3	31	14.2	12.9	10.6	9.0	7
McIntyre ^c	5J15	9100	5/1	35	10.8	12.2	16.3	8.9**	10
Pole Mountain #2 \div	5H1	8700	4/24	18	5.2	2.9	6.8	2.5*	17
Roach ^c	6J8	9800	5/1	55	19.3	20.5	29.5	21.1*	18

NORTH PLATTE - CROW CREEK

Pole Mountain #2 \div	5H1	8700	4/24	18	5.2	2.9	6.8	2.5*	17
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NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany \div	6H11	9400	4/24	43	15.6	14.1	17.0	11.6**	10
Bottle Creek	6H8	8200	4/29	25	9.7	11.9	18.6	9.2*	22
Boxelder \div	5G1	9000	4/30	16	6.5	4.4	5.5	5.1**	9
Cameron Pass ^c \div	5J1	10300	5/1	72	29.7	32.9	36.1	24.3	23
Casper Mountain \div	6G1	8700	5/1	33	11.3	19.1	12.7		4
Columbine ^c	6J3	9300	4/30	63	28.1	28.3	29.2	20.6	23
Fox Park \div	6H12	9200	4/28	21	8.0	13.4	10.1	5.5	23
LaBonte \div	5G2	8450	4/29	0	0.0	Trace	0.5	0.0**	8
North Barrett Cr.	6H5	9400	4/30	54	21.2	27.8	26.2	22.2	23
North French Cr. #1	6H4	10200	4/30	87	36.9	42.9	42.8	32.7	21
Northgate ^c	6J7	8500	5/1	8	2.7	3.6	8.0	2.9**	9
Old Battle \div	6H10	9800	4/29	74	29.5	35.5	43.3	34.0	23
Park View ^c	6J2	9200	4/30	17	5.3	7.2	10.6	7.9	23
Ryan Park	6H6	8400	4/30	19	6.9	13.5	13.8	7.9	23
Webber Spring	6H9	9000	4/29	35	14.1	17.3	21.6	16.4	23
Willow Cr. Pass ^c	6J5	9500	4/30	30	9.9	11.8	17.5	13.5	21

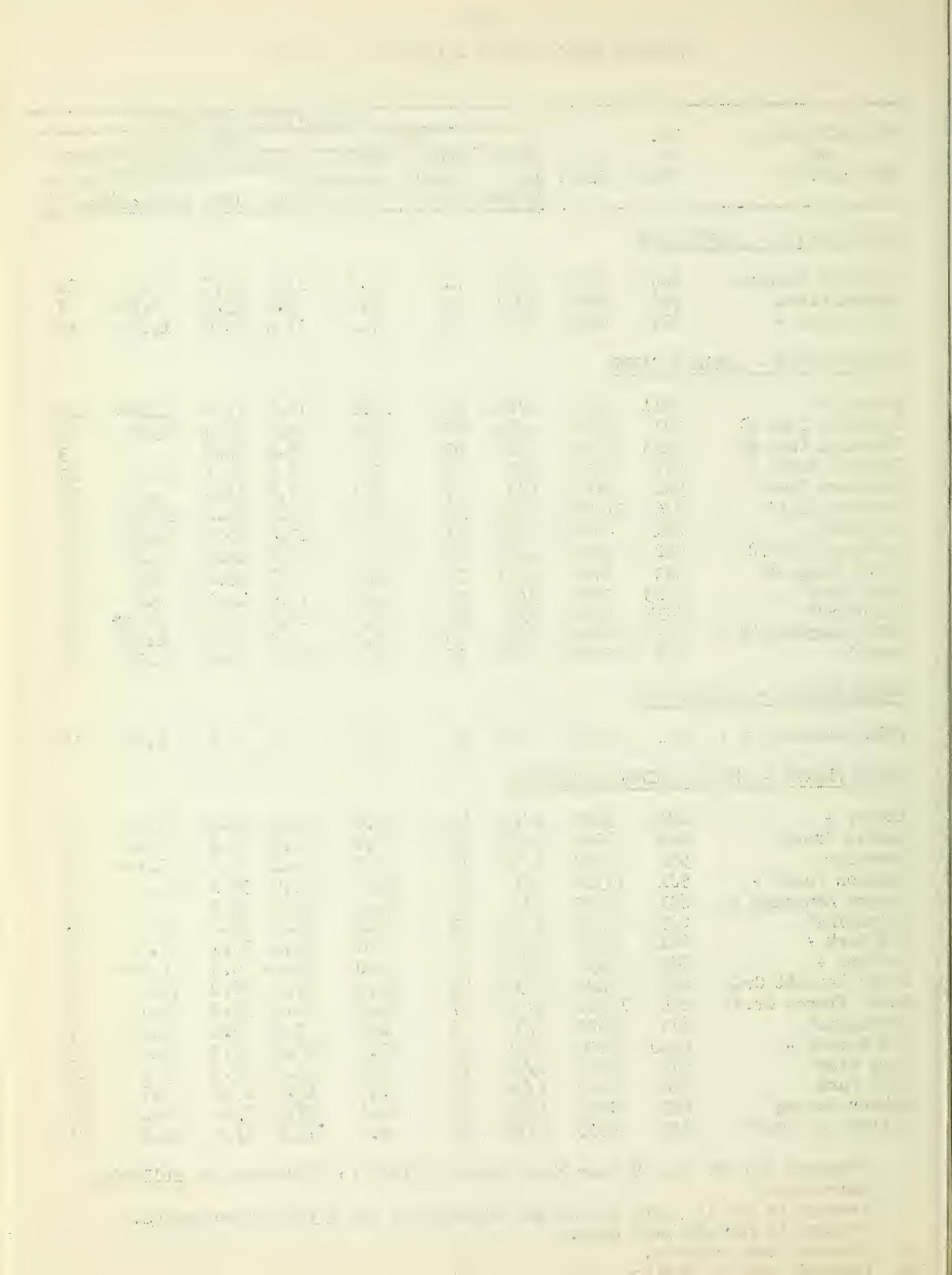
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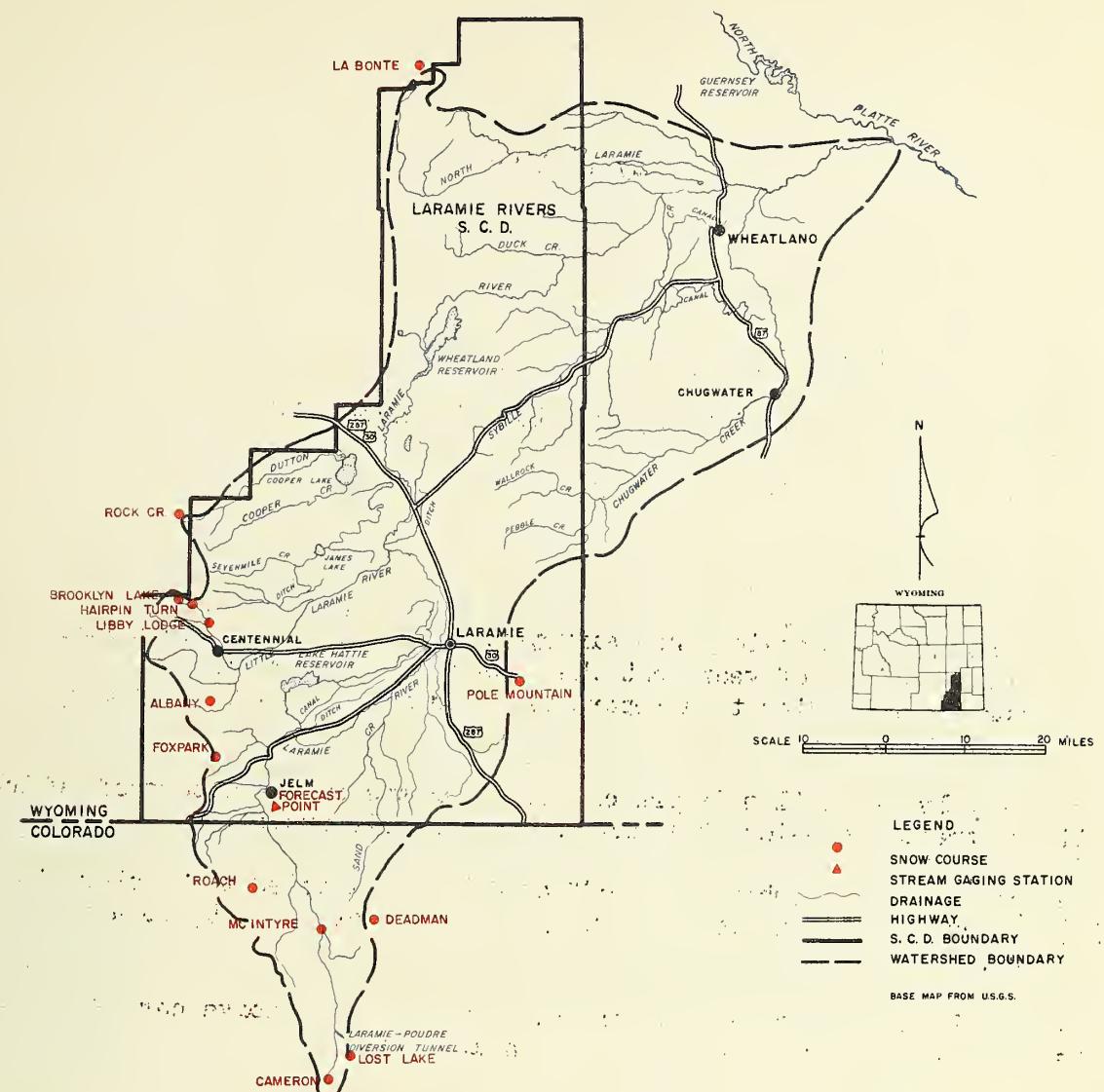
** Average is for all past data.

^c Colorado snow courses.

\div Located close to divide.



SNOW SURVEY & WATER SUPPLY FORECAST
FOR
LARAMIE RIVERS SOIL CONSERVATION DISTRICT
ALBANY COUNTY, WYOMING



SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		PAST YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	LAST YEAR	
5G2	LaBonte	8450	4/29	0	0.0	Trace	0.0	8
6H15	Rock Creek(Aerial)	9500	No Report			-	-	0
6H1	Brooklyn Lake #1	10200	4/23	70	27.6	26.0	23.6	23
6H2	Hairpin Turn #2	9500	4/23	69	25.9	11.7	11.4	23
6H3	Libby Lodge #2	8700	4/23	36	13.2	9.8	6.8	23
6H11	Albany	9400	4/24	43	15.6	14.1	11.6	10
6H12	Foxpark	9200	4/28	21	8.0	13.4	5.5	23
6J8	Roach	9800	5/1	55	19.3	20.5	21.1	18
5J15	McIntyre	9100	5/1	35	10.8	12.2	11.1	9
5J1	Cameron Pass	10300	5/1	72	29.7	32.9	24.3	23
5J23	Lost Lake	9300	5/3	31	14.2	12.9	10.6	7
5J6	Deadman Hill	10200	4/29	55	18.6	18.4	17.6	20
5H1	Pole Mountain #2	8700	4/24	18	5.2	2.9	2.5	17

SNOW SURVEY & WATER SUPPLY FORECAST
FOR
LARAMIE RIVERS SOIL CONSERVATION DISTRICT
ALBANY COUNTY, WYOMING

May 1, 1959

TO: The Cooperator
FROM: The Board of Supervisors, Laramie Rivers SCD
SUBJECT: 1959 Seasonal Water Supplies

Soil Conservation Service snow surveyors have found an above normal snow pack for this time of year, but the seasonal runoff at Jelm will be less than normal, according to a report received from Lyman E. Ellsbury, Work Unit Conservationist.

An extremely dry soil moisture condition exists on the watershed, which will subtract a considerable amount of snow melt runoff.

The April 1 to September 30 runoff at Jelm is expected to be close to 94,000 acre feet of water or about 90 per cent of the 105,000 acre foot average.

Unless subsequent summer precipitation proves to be above normal, less than adequate water supplies may be anticipated.

Gilbert Engen
Gilbert Engen, Chairman
Board of Supervisors

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

DRAINAGE BASIN and SNOW COURSE	NO. or STATE	ELEV.	SNOW COVER MEASUREMENTS						
			1959			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1958	1957	Average
									Prior 1938-52 Yrs.of Record

NORTH LARAMIE MOUNTAINS

Boxelder +	5G1	9000	4/30	16	6.5	4.4	5.5	5.1**	9
Casper Mountain +	6G1	8700	5/1	33	11.3	19.1	12.7		4
LaBonte +	5G2	8450	4/29	0	0.0	Trace	0.5	0.0**	8

UPPER COLORADO - GREEN RIVER

Big Park +	10G11	8700	4/27	49	18.0	21.7	25.1	22.0**	7
Dutch Joe R.S.	9G5	8700	4/28	14	5.2	6.0	11.7	4.4*	20
East Rim Divide +	10F17	7950	4/28	29	9.8	9.8	11.3	10.7**	13
Gros Ventre Summit +	10F19	8750	5/2	35	11.9	7.2	13.2		3
Kelly R.S. +	10G12	8200	4/27	41	14.2	16.4	20.3		3
Kendall R.S.	10F15	7900	5/2	13	5.3	5.4	12.2	6.3*	20
Loomis Park +	10F16	8500	5/2	31	13.2	11.0	18.1	11.8*	20
Mulligan Park	9G1	8900	5/3	25	6.5	9.5	11.0	6.5	23
Old Battle +	6H10	9800	4/29	74	29.5	35.5	43.3	34.0	23
Piney LaBarge	10G10	8820	4/29	37	16.0	17.5	25.6	13.2*	22
Poison Meadows +	10G6	8500	4/29	69	28.7	31.7	36.8		3
Snyder Basin R.S. #2	10G13	8040	4/29	27	11.2	12.7	18.8		4
Soda Lake	10G14	8300	5/1	36	15.3	15.5	21.9		4
Triple Peaks	10G15	8500	5/1	56	26.9	26.6	33.0		3

SNAKE RIVER - ABOVE JACKSON LAKE

Grassy Lake +	10E15	7265	5/1	60	29.2	32.6	41.9	31.4**	19
Lewis Lake	10E9	7900	5/1	87	40.1	38.5	50.6	46.9**	7

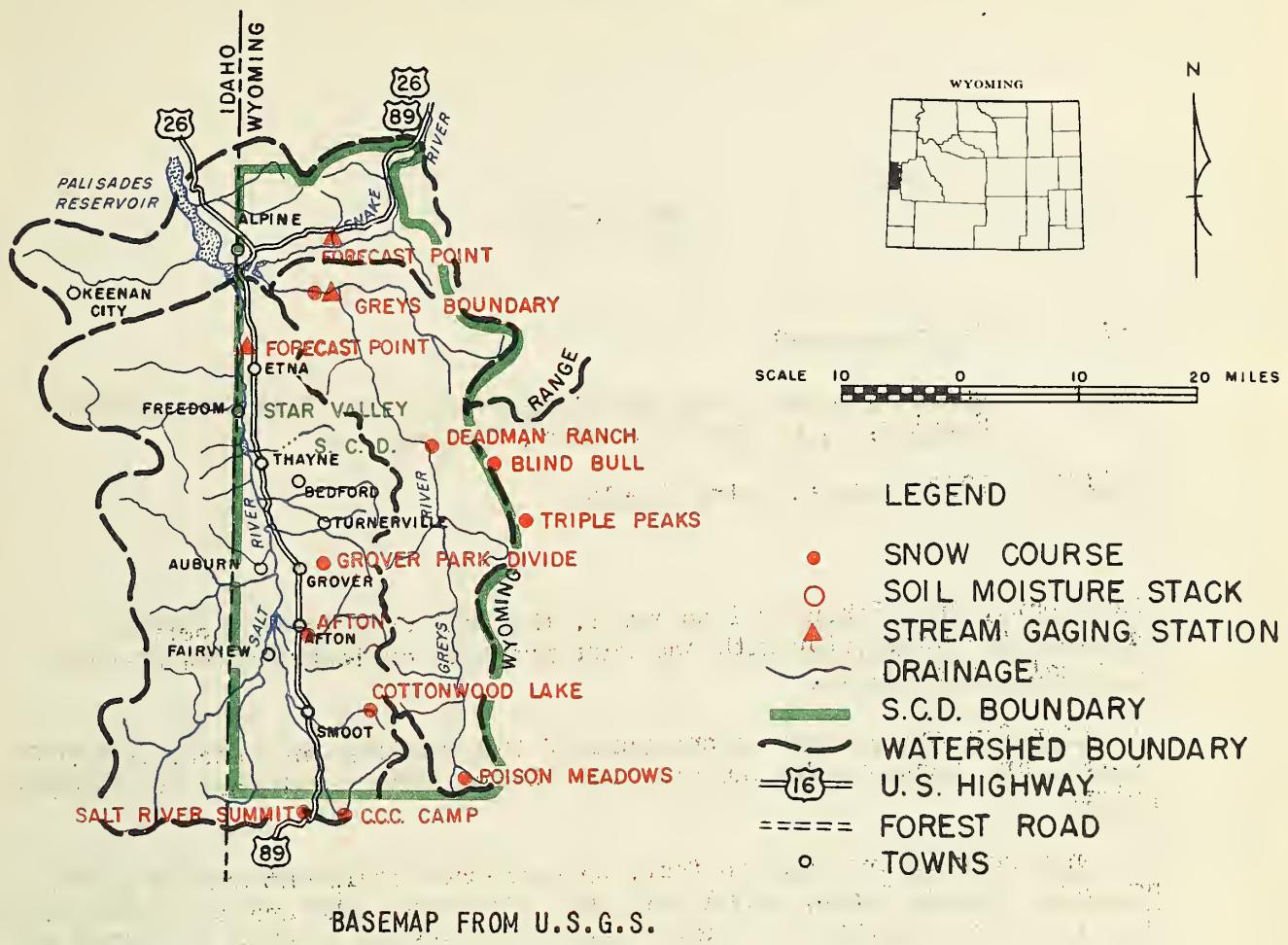
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** Average is for all past data.

÷ Located close to divide.

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
STAR VALLEY SOIL CONSERVATION DISTRICT
LINCOLN COUNTY, WYOMING



NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	YEARS OF RECORD	
10F18	Greys Boundary	5800	5/1	Trace		4.6	1.0	14
10G1	Deadman Ranch	6534	Snow surveys on Feb. 1, Mar. 1, & Apr. 1.					
10G2	Blind Bull	8750	Snow surveys on Feb. 1, Mar. 1, & Apr. 1.					
10G15	Triple Peaks	8500	5/1	56	26.9	26.6	31.8	3
10G3	Grover Park Divide	7500	4/30	16	6.9	13.1	5.2	8
10G5	Cottonwood Lake	7500	Snow surveys on Feb. 1, Mar. 1, & Apr. 1.					
10G6	Poison Meadows	8500	4/29	69	28.7	31.7	35.3	3
10G8	Salt River Summit	7900	4/29	25	10.0	15.4	10.6	6
10G7	CCC Camp	7500	4/29	13	5.3	10.4	6.1	9

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
STAR VALLEY SOIL CONSERVATION DISTRICT
LINCOLN COUNTY, WYOMING

May 1, 1959

TO: The Cooperator

FROM: Soren G. Sabey, Work Unit Conservationist, Soil Conservation Service, P. O. Box 216, Afton, Wyoming

SUBJECT: 1959 Seasonal Water Supply

Each month, from February 1 to May 1, the Soil Conservation Service provides the Cooperator with the most probable outlook for the ensuing seasonal water supply.

In order for you to make an analysis of the existing snow pack, the snow courses are shown on the map with the stream gaging stations, or forecast points.

The snow surveys are made on foot, by over-snow equipment and by plane, however, Deadman Ranch, Blind Bull and Cottonwood Lake are not flown on May 1, as melt around the stadia snow course marker creates too great an error.

The snow pack on the Salt River indicates an April 1 to September 30 runoff of 340,000 acre feet of runoff into Palisades Reservoir. This is about 5 per cent below average.

Because of the short period of record, no forecast can be made on the Greys River for another year or two, however, the total seasonal flow of the Snake and the Greys above Palisades is expected to be 740,000 acre feet or 86 per cent of normal.

Soren G. Sabey
Soren G. Sabey
Soil Conservation Service
U.S. Department of Agriculture

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1959

DRAINAGE BASIN and SNOW COURSE	NO. or STATE	ELEV.	SNOW COVER MEASUREMENTS						
			1959			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1958	1957	Average
<u>JACKSON LAKE TO PALISADES</u>									

Afton R. S.	10G4	6200	5/1	0	0.0	0.0	0.0	0.0**	10
Bryan Flat	10F14	6250	4/28	0	0.0	6.0	0.0	2.3**	13
CCC Camp \div	10G7	7500	4/29	13	5.3	10.4	13.3	6.1**	9
East Rim Divide \div	10F17	7950	4/28	29	9.8	9.8	11.3	10.7**	13
Greys Boundary	10F18	5800	5/1	0	0.0	4.6	0.0	1.0**	14
Gros Ventre Summit \div	10F19	8750	5/2	35	11.9	7.2	13.2		3
Grover Park	10G3	7500	4/30	16	6.9	13.1	11.1	5.2**	8
Loomis Park \div	10F16	8500	5/2	31	13.2	11.0	18.1	11.8*	20
Poison Meadows \div	10G6	8500	4/29	69	28.7	31.7	36.8		3
Salt River Summit \div	10G8	7900	4/29	25	10.0	15.4	17.7	10.6**	6
Snow King Mtn. #2	10F12	7200	4/27	19	5.3	9.1	9.0		5
Snow King Mtn. #3	10F20	7600	4/27	31	11.4				0
Teton Pass #2	10F13	8500	4/30	85	37.4	40.4	40.1	41.4**	10
Togwotee Pass \div	10F9	9600	5/1	78	33.2	29.4	32.7	34.3**	10

BEAR RIVER

Big Park \div	10G11	8700	4/27	49	18.0	21.7	25.1	22.0**	7
CCC Camp \div	10G7	7500	4/29	13	5.3	10.4	13.3	6.1**	9
Goodman Ranch ^u	10J6	7900	4/30	0	0.0	Trace	4.6		4
Hayden Fork ^u	10J7	9300	4/30	30	13.7	17.3	21.8		5
Kelly R.S. \div	10G12	8200	4/27	41	14.2	16.4	20.3		3
Monte Cristo R.S. ^u	11H12	8960	4/27	51	20.8	30.6	31.4	27.3**	8
Poison Meadows \div	10G6	8500	4/29	69	28.7	31.7	36.8		3
Salt River Summit \div	10G8	7900	4/29	25	10.0	15.4	17.7	10.6**	6
Still Water Camp ^u	10J17	8550	4/30	14	6.1	9.6	13.0		4
Trial Lake ^u \div	10J8	9800	4/30	62	24.4	30.2	34.3	30.7**	11

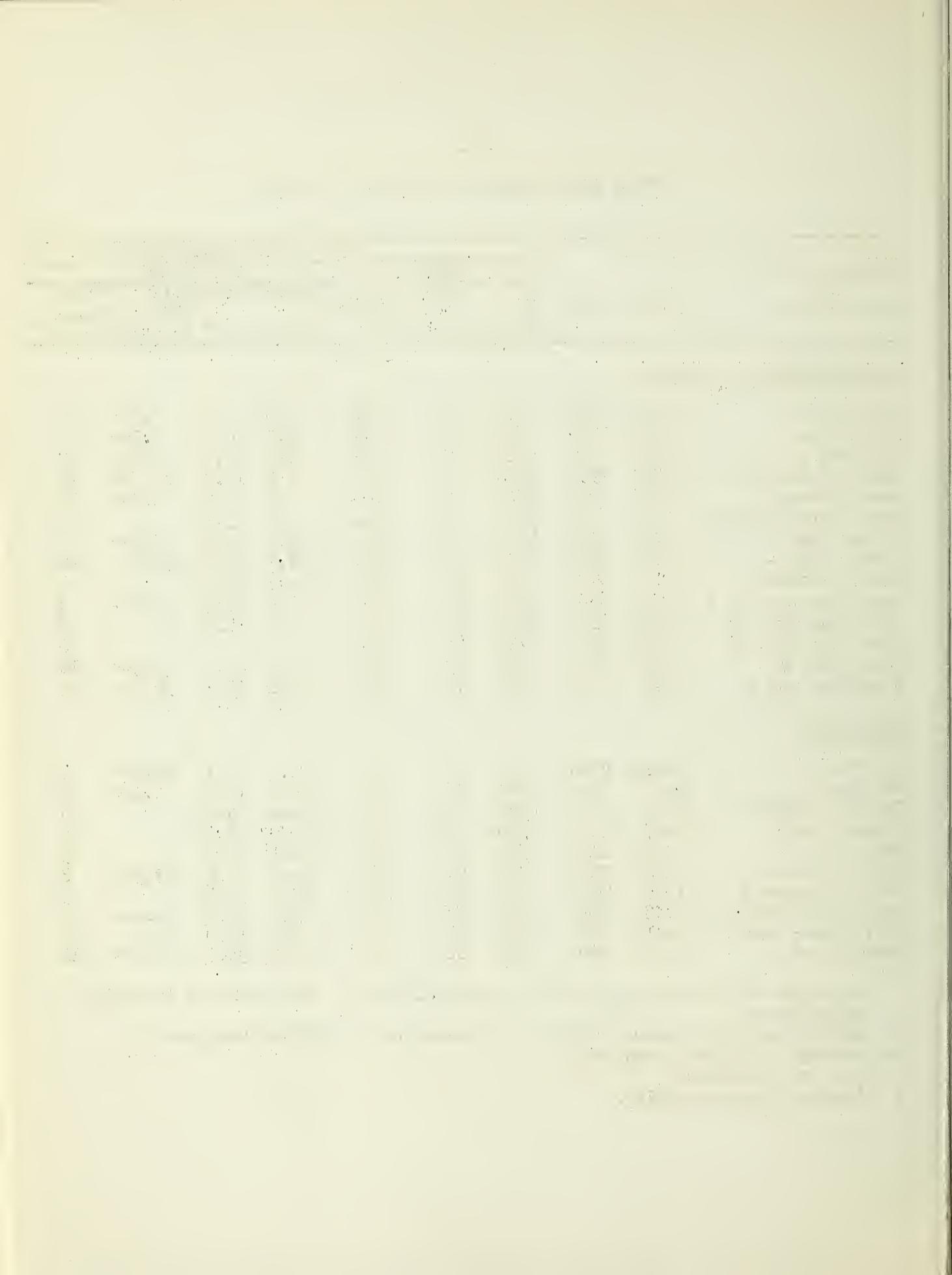
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** Average is for all past data.

^u Utah snow courses.

\div Located close to divide.



STATUS OF WYOMING, SOUTH DAKOTA & NEBRASKA RESERVOIR STORAGE - MAY 1, 1959

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1959	1958	1957	15-Yr Avg. 1938-52
Snake River	Jackson ^W	847.0	496.6	459.2	185.3	502.7
North Platte	Seminoe ^W	981.8	536.1	548.9	212.8	387.6*
North Platte	Pathfinder ^W	1011.0	203.7	721.3	408.2	508.4*
North Platte	Alcova ^{**W}	190.5	28.8	186.8	187.7	132.2
North Platte	Guernsey ^W	39.8	33.1	31.3	18.9	35.9
North Platte	Southerland ⁿ	185.0		45.5	70.0	47.7
North Platte	Kingsley ⁿ	1995.0		1164.0	718.0	1219.5*
North Platte	Minatare ⁿ	60.8	47.8	46.4	17.1	41.0
Kansas Basin	Bonny ^C	39.9	37.1		39.5	17.1*
Kansas Basin	Swanson Lake ⁿ	116.1	114.6		100.6	
Kansas Basin	Enders ⁿ	36.0	37.2		35.6	19.9*
Kansas Basin	Harry Strunk ⁿ	33.9	34.1		31.0	27.4*
Kansas Basin	Harlan County ⁿ	252.9	349.9		78.7	
Kansas Basin	Cedar Bluff ^k	176.8	177.1		115.3	72.0*
Laramie River	Wheatland ^W	95.0	37.0	90.0		44.1
Belle Fourche	Belle Fourche ^{sd}	185.2	63.9	98.9	62.5	132.4*
Belle Fourche	Keyhole ^W	330.3	1.4	11.6	3.2	0.5*
Shoshone River	Buffalo Bill*** ^W	380.3	44.7	106.2	97.6	266.6
Wind River	Boysen ^W	560.0	84.1	197.6	202.5	
Wind River	Pilot Butte ^W	31.6	19.7	27.7	27.7	20.9*
Wind River	Bull Lake ^W	152.0	40.0	56.6	60.1	48.6*
Cheyenne River	Angostura ^{sd}	90.0		68.6	39.8	33.6*
Cheyenne River	Deerfield ^{sd}	15.1	9.6	12.1	9.2	14.2*
Grand River	Shadehill ^{sd}	84.0	82.8	82.0	77.9	
Green River	Big Sandy ^W	38.3		35.4	13.0	

* Average is for less than 15 years of record in the 1938-52 period.

** Alcova, downstream from Seminoe and Pathfinder and containing 160,170 acre feet of active storage that is unavailable to Kendrick Project.

*** Usable capacity 439,800, however 59,500 acre feet are inactive except in emergency.

w Wyoming

n Nebraska

c Colorado

sd South Dakota

k Kansas

Federal - State - Private
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*“The Conservation of Water begins
with the Snow Survey”*

